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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/099,663

DATE: 04/02/2002

TIME: 15:03:58

Input Set : A:\FABPcp35.ST25.txt

Output Set: N:\CRF3\04022002\J099663.raw

3 <110> APPLICANT: Avigenics, Inc  
 5 <120> TITLE OF INVENTION: Avian GUT-Specific Promoters  
 7 <130> FILE REFERENCE: A181  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/099,663  
 C--> 9 <141> CURRENT FILING DATE: 2002-03-14  
 9 <160> NUMBER OF SEQ ID NOS: 19  
 11 <170> SOFTWARE: PatentIn version 3.0  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 2381  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: Gallus gallus  
 18 <220> FEATURE:  
 19 <221> NAME/KEY: 5'UTR  
 20 <222> LOCATION: (1)..(1626)  
 22 <220> FEATURE:  
 23 <221> NAME/KEY: exon  
 24 <222> LOCATION: (1627)..(1693)  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: Intron  
 28 <222> LOCATION: (1694)..(2322)  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: exon  
 32 <222> LOCATION: (2333)..(2381)  
 34 <400> SEQUENCE: 1  
 35 agcttcctgc gcagaaaagg ctgtgggggtt cttgttccct cacacagctt aagcaaaatc 60  
 37 cccaagttca aaacgtcggc tgtaagagga gatggctcac ttcaaataaa gtgaattatg 120  
 39 aaataatcat aaaacgagct ctgttggcag atcagagata acctctgctg ggacaaaatt 180  
 41 cttaaagtgt ataggtagaa caggagggtgt ttgcaactaa atggactaga ttgtaccaca 240  
 43 tttgatcttc taggagacaa aagggtcttg aaaacaaaatt aattctggtg cacagtcagt 300  
 45 agcagcctgt tttgggtgca actacagcaa ctttgtttgc aacaataaca atctaagttg 360  
 47 ttttcttttc ctctttcctt aacttctgta cagtctaaag gtgaagagta gctattgagt 420  
 49 tacttccctc tgcatcctct tagccagatt agcattgatt tcaaaatgaa cctgagtggg 480  
 51 atggaaagcc acactatttt ggtatcacca gcaaagttct aaatttatag ttataacttca 540  
 53 gtaaaacctt ttgctgcagg tctggaagaa aaagaagatt atgataaacac cagactagta 600  
 55 aaattcatta gttagagcca accctgttat ctgtgtgata agcaacattc atttcagcat 660  
 57 tcaggattta catttttgaa gctaataagac agcagatttg gtgccgtcca taggaacaga 720  
 59 ctaactataa tcttgagttt agtacaagca gatttagcac cagcaaattt gctcagtttc 780  
 61 aagtagcact atcttgtggg gaagaaggag ctgagccagt gtgtgctcat tttctgcatt 840  
 63 atccttcaac atttaaaacc tgggatctat ggaaatcaaa cacgttgggt aaaattcact 900  
 65 tagcagcaca tcaactactg taggaatgga cagaaacaga gcattcactg aatgggctat 960  
 67 aatatagaga atacgtagaa ggtgtcctga atttagacta cctattaaag agtgaggaca 1020  
 69 cgaatggaga atatcatcgc aatttctgta gctcagcact agactcgaag gtttctgaaa 1080  
 71 ctgaaccgag tttcccaaac tacctgtgga tgttcagtg atccttcac tcattgcttat 1140

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73 tatgtggagt agaatagatt ctcaccaaata tagaatggac aaagcagaga tttgtgtttt 1200
75 atctgttggg taaatacgtt ttctccagtt gtataaagac cctcccacca gtataaagtc 1260
77 ctatgcaaca aagaaaatgt caatacattc tcttagtctc attattattt tcattagata 1320
79 gccggttttt tactacaact caaataagat gaacagaatg aatgggttag tgactgttta 1380
81 taaagaagag taataaagat actatcatca tttgaggcaa taagggaggg agagattcag 1440
83 caaacagtgt gcttacaagt ggaaaacaag ttaaactaaa gtgaccccc tccttgacaa 1500
85 gatcaatgcc acagttgagc tttagccagc cacatcatca tgtaaattgc tttcctgata 1560
87 agcctgttca taaattctct ttgcaaagct ctgctactta ccagaagtct gcctacagac 1620
89 agaaag atg gca ttt aac ggt act tgg aaa ata gag aaa aat gag aac 1668
90 Met Ala Phe Asn Gly Thr Trp Lys Ile Glu Lys Asn Glu Asn
91 1 5 10
93 tat gaa aaa ttc atg gaa gca atg g gtaagcctta cttttttgaa 1713
94 Tyr Glu Lys Phe Met Glu Ala Met
95 15 20
97 tgccttctaa aagcaggata ccactacggc ggaatacaaa ctttaagctgt tcatgaacta 1773
99 ccatctggct aacctgtcct ttgttgtctg ctattttgcc cttgcacatt gccctgcaact 1833
101 tattttgaaa agactctata gaggggaata caaggaagaa aaacattctg atttttattg 1893
103 cattgcgata atcttatgca tttagctaat tccagtagag gcattccagc agaaatttaa 1953
105 atagaattat atgtaaggaa tattattttg ataagactgt ttgaaaaatt acacaagagg 2013
107 gaaattgctg gtctccagtt ttgcagaaca cacatgattt gagtcatttt aacatgctag 2073
109 tgcttacttt aagcttgtag aaactgcctg taatatggat gtaaacataa ctatcctagt 2133
111 tggatagtag tttgtattac aggctgaaca ctgcctcagt gaaaggtgga gaagagtaag 2193
113 actctgagtc agaattctgg gctaagctcc ctcaactaca gaaaaagtca caataaaaat 2253
115 gcaaacatga tgttctattt tgtttttctc tgcttgatgt taattgatta ttattatttt 2313
117 tttttttagg cgtgaatgt gat gaa aag aaa gtt agg agc cca cga taa tct 2365
W--> 118 Asp Glu Lys Lys Val Arg Ser Pro Arg Ser
119 25 30
121 gaa gct cac tat tca g 2381
122 Glu Ala His Tyr Ser
123 35
126 <210> SEQ ID NO: 2
127 <211> LENGTH: 336
128 <212> TYPE: DNA
129 <213> ORGANISM: Gallus gallus
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1)..(336)
134 <223> OTHER INFORMATION: chick intestinal fatty acid binding protein promoter region
137 <400> SEQUENCE: 2
138 attattattt tcattagata gccggttttt tactacaact caaataagat gaacagaatg 60
140 aatgggttag tgactgttta taaagaagag taataaagat actatcatca tttgaggcaa 120
142 taagggaggg agagattcag caaacagtgt gcttacaagt ggaaaacaag ttaaactaaa 180
144 gtgaccccc tccttgacaa gatcaatgcc acagttgagc tttagccagc cacatcatca 240
146 tgtaaattgc tttcctgata agcctgttca taaattctct ttgcaaagct ctgctactta 300
148 ccagaagtct gcctacagac agaaagatgg cattta 336
151 <210> SEQ ID NO: 3
152 <211> LENGTH: 21
153 <212> TYPE: DNA
C--> 154 <213> ORGANISM: Artificial

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156 <220> FEATURE:
157 <223> OTHER INFORMATION: PCR Primer
159 <400> SEQUENCE: 3
160 tttcaaaatg aacctgagtg g 21
163 <210> SEQ ID NO: 4
164 <211> LENGTH: 21
165 <212> TYPE: DNA
C--> 166 <213> ORGANISM: Artificial
168 <220> FEATURE:
169 <223> OTHER INFORMATION: PCR Primer
171 <400> SEQUENCE: 4
172 cagtggatcc ttcattcat g 21
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 17
177 <212> TYPE: DNA
C--> 178 <213> ORGANISM: Artificial
180 <220> FEATURE:
181 <223> OTHER INFORMATION: tissue specific element of chiFARBP
183 <400> SEQUENCE: 5
184 aagatactat catcatt 17
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 22
189 <212> TYPE: DNA
C--> 190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: primer FABPI-Fw1
195 <400> SEQUENCE: 6
196 gagaactatg agaagttcat gg 22
199 <210> SEQ ID NO: 7
200 <211> LENGTH: 22
201 <212> TYPE: DNA
C--> 202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Primer FABPI-Rv2
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <223> OTHER INFORMATION: A,C,G,T
212 <400> SEQUENCE: 7
W--> 213 acttgaattt gtttcntcy tg 22
216 <210> SEQ ID NO: 8
217 <211> LENGTH: 31
218 <212> TYPE: DNA
C--> 219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Primer FABPI-Fw2
224 <400> SEQUENCE: 8
225 tgagtactat gagaagttca tggaagcaat g 31
228 <210> SEQ ID NO: 9
229 <211> LENGTH: 32

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DATE: 04/02/2002

PATENT APPLICATION: US/10/099,663

TIME: 15:03:58

Input Set : A:\FABPcp35.ST25.txt

Output Set: N:\CRF3\04022002\J099663.raw

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230 <212> TYPE: DNA
C--> 231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Primer FABPI-Rv2
236 <400> SEQUENCE: 9
237 tcctgcagaa tagtaagctt cagattatcg tg 32
240 <210> SEQ ID NO: 10
241 <211> LENGTH: 21
242 <212> TYPE: DNA
C--> 243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Primer PCR1
248 <400> SEQUENCE: 10
249 taatacgact cactataggg c 21
252 <210> SEQ ID NO: 11
253 <211> LENGTH: 22
254 <212> TYPE: DNA
C--> 255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Primer cFABPI-Rv3b
260 <400> SEQUENCE: 11
261 gtgcaagggc aaaatagcag ac 22
264 <210> SEQ ID NO: 12
265 <211> LENGTH: 25
266 <212> TYPE: DNA
C--> 267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Primer PCRN1
272 <400> SEQUENCE: 12
273 ctaatacgac tcactatagg gctcg 25
276 <210> SEQ ID NO: 13
277 <211> LENGTH: 22
278 <212> TYPE: DNA
C--> 279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Primer cFABPI-Rv4
284 <400> SEQUENCE: 13
285 ttccgccgta gtggtatcct gc 22
288 <210> SEQ ID NO: 14
289 <211> LENGTH: 42
290 <212> TYPE: PRT
291 <213> ORGANISM: Gallus gallus
293 <220> FEATURE:
294 <221> NAME/KEY: UNSURE
295 <222> LOCATION: (1)..(42)
297 <400> SEQUENCE: 14
299 Met Ala Asn Asp Gly Thr Trp Lys Ile Glu Lys Asn Glu Asn Tyr Glu
300 1 5 10 15
302 Lys Phe Met Glu Ala Met Gly Val Asn Val Met Lys Arg Lys Leu Gly

```

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DATE: 04/02/2002

TIME: 15:03:58

Input Set : A:\FABPcp35.ST25.txt

Output Set: N:\CRF3\04022002\J099663.raw

```

303          20          25          30
305 Ala His Asp Asn Leu Lys Leu Thr Ile Gln
306          35          40
308 <210> SEQ ID NO: 15
309 <211> LENGTH: 23
310 <212> TYPE: DNA
C--> 311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Primer cFABPI-Rv6
316 <400> SEQUENCE: 15
317 ctttctgtct gtaggcagac ttc 23
320 <210> SEQ ID NO: 16
321 <211> LENGTH: 21
322 <212> TYPE: DNA
C--> 323 <213> ORGANISM: Artificial
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Primer cFABPI-Fw5
328 <400> SEQUENCE: 16
329 tttcaaaatg aacctgagtg g 21
332 <210> SEQ ID NO: 17
333 <211> LENGTH: 22
334 <212> TYPE: DNA
C--> 335 <213> ORGANISM: Artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Primer cFABPI-Fw6
340 <400> SEQUENCE: 17
341 cagtggatcc ttcattcat gc 22
344 <210> SEQ ID NO: 18
345 <211> LENGTH: 23
346 <212> TYPE: DNA
C--> 347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Primer mFABPI-Fw
352 <400> SEQUENCE: 18
353 tgtctataga ggtagaaagc agc 23
356 <210> SEQ ID NO: 19
357 <211> LENGTH: 23
358 <212> TYPE: DNA
C--> 359 <213> ORGANISM: Artificial
361 <220> FEATURE:
362 <223> OTHER INFORMATION: Primer mFABPI-Rv
364 <400> SEQUENCE: 19
365 gtgtctctag gaaagcagag gtc 23

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## VERIFICATION SUMMARY

DATE: 04/02/2002

PATENT APPLICATION: US/10/099,663

TIME: 15:03:59

Input Set : A:\FABPcp35.ST25.txt

Output Set: N:\CRF3\04022002\J099663.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:118 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 1  
L:154 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:166 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:178 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:190 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:202 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:213 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:219 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:231 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:243 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:255 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:267 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:279 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:311 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:323 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:335 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:347 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:359 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19